



INTERNATIONAL
COMMITTEE *on*
ELECTROMAGNETIC
SAFETY

IEEE ICES Subcommittee 2

Committee on Terminology, Units of Measurement, and Hazard Communications

Sunday, 10 January 2016; 1300 - 1700 h
Holiday Inn Express/ Sawgrass Room
1701 N University Drive, Plantation, Florida 33322, USA
(Minutes recorded by D. Haes, Secretary)

1. CTO by Chair, R. Tell at 13:10.
2. Introduction of those in attendance
3. Modifications and approval of agenda
 - M. Meltz moved adopt, M. Ziskin seconded; approved (**Appendix A**).
4. Review and approval of Unapproved Minutes Pacific Grove meeting (11 June 2015) previously distributed via access to the ICES website.
 - After some minor editorial changes, M. Ziskin moved adopt, M. Wessel seconded; approved (**Appendix B**).
5. Discussions on:
 - M. Butcher presented information on the *Minimal information/training to qualify for exposure up to upper tier* (**Appendix C**).
 - D. Maxon commented that there are 3 things required by OSHA on a hazard warning sign: what the hazard is, what to do to avoid the hazard, and the location of the hazard.
 - B Jon Klauenberg commented on the language of “not allowed because ... potential risks”.
 - M. Butcher responded that NOTICE signs would be needed for areas where RF exposures could be above the lower tier, but still below the upper tier.



INTERNATIONAL COMMITTEE *on* ELECTROMAGNETIC SAFETY

- D. Maxon commented further that the FCC differentiates between controls of Occupational vs. Public exposure, and Controlled vs. Uncontrolled areas.
- No further comments of dialogue.
- M. Wessel presented information on the *Implications of the lack of RF safety program (APPENDIX D)*. The presentation started with a sample letter to the Landlord RE: Cellular Rooftop Site Safety Program at your building. Marv explained an incident where a building landlord had “inherited” the responsibilities for the rooftop antenna site but none of the information associated with its FCC compliance. He reached out to a consultant to determine the compliance, which resulted in FCC NAL. See **APPENDIX E** for *RF Safety Programs: Who’s on first?* slides.
 - A discussion ensued with the nuances of the signs / barriers being a COMPONENT of an RF Safety Program, or where the signs / barriers ARE the RF Safety Program.
- R. Tell presented information relative to a *RF Minimal Awareness Guide*. D. Sliney commented that perhaps language can be used; such as “shoulds” and “shalls”. For example, “the licensee should consider a physical barrier to prevent public access near an RF source, but shall prevent RF exposures to members of the public to less than the MPE”.
 - A discussion followed commenting on the previous presentation by M. Wessel that an RF Safety Program needs to be maintained to be effective.
 - C. Kihnstrom commented that if we need to be able to define the controlled/restricted area.
 - CK Chou reiterated the language of C95.1 with the definition of RF restricted area.
 - **ACTION ITEM**: R. Tell to circulate *RF Minimal Awareness Guide* to ADHOC group.
 - M. Butcher commented that we don’t need to address occupational exposure aspects.
- R. Tell (for P. Reilly) presented the topic of the need for different warning signs for low frequency (< 3 kHz) electric and magnetic fields.



INTERNATIONAL COMMITTEE *on* ELECTROMAGNETIC SAFETY

- B. Jon Klauenberg suggested that the signs used for static fields supplied by MRI/NMR manufacturers could be used for < 3 KHz. (Secretary's note, static field magnetic signs are not listed in any ANSI standard).
 - The group in general suggested just using the "no touch" sign in C95.2, but R. Tell pointed out that this is a CNS issue, and not a touch/burn issue.
 - **ACTION ITEM:** R. Tell to circulate ideas or even the need for different low frequency signs to an ADHOC group.
 - R. Tell started a discussion on specific recommendations for training opportunities for SC-2. **APPENDIX F** lists ideas for Possible SC2 Workshop in 2016 (R. Tell; Revised January 6, 2015).
 - R. Petersen pointed out the last workshop for SC2 was 2004.
6. New Business
- C. Kihnstrom started a conversation of installing barriers with 6' of the edge of the roof, where the fall hazard is more prevalent than the RF hazard. How do we warn folks in areas where signs are not required? Should be have a special sign showing the RF hazard and edge of roof? The was no specific discussion on the question.
 - S. Kim pointed out the PAR for C95.2 has expired. SC2 can sponsor a ballot to IEEE/SA membership for renewal similar to the process of reaffirmation.
 - **ACTION ITEM:** R. Tell to decide what to do about C95.2.
 - R. Tell suggested we renew C95.2 with new signs for LF fields.
 -
7. Time and Place of Next Meeting
- R. Bodermann discussed the pros/cons of having the meeting in Ghent vs., Brussels, Belgium. TBD by ADCOM.
 - R. Tell asked how we can attract attendees of SC2 at the meeting.
 - CK Chou suggested each SC could present topics of special topics.
 - S. Kim suggested we can reach out through IEEE membership locally in EU and provide training opportunities for SC-2, or specific recommendations.



INTERNATIONAL
COMMITTEE *on*
ELECTROMAGNETIC
SAFETY

- CK Chou suggested SC2 could put on special topics workshop?
 - S. Kim suggested we can present opportunities to join IEEE/ICES membership.
 - M. Meltz suggested a ½ day workshop.
8. Adjournment: K. Joyner moved adopt, K. Colville seconded at 16:30.